

Title

Needle Beam &amp; Connector Plate

Issue

5

Date

May 2012

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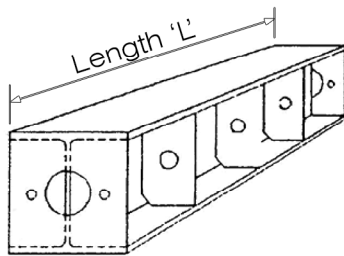
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## 1. Introduction

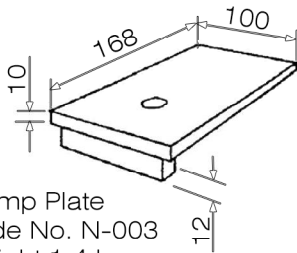
This leaflet is intended to provide basic information for users of Mabey Hire Services Needle Beam and Prop/Needle connection. The Needle Beams and Connectors are intended to be used in combination with Mabey Hire Services products in the System 160 range.

This User Information should be read in conjunction with that for the System 160.

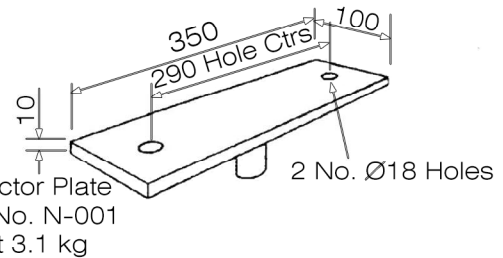
## 2. Identification of Components



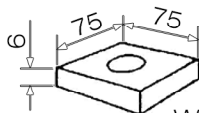
Needle Beam			
Code No.	U.C. Section	Length L (mm)	Weight (kg)
N-004	152x152x37 kg/m	2500	105
N-014	152x152x37 kg/m	2000	84
N-009	203x203x60 kg/m	3000	200
N-007	203x203x71 kg/m	3000	225
N-008	254x254x107 kg/m	2000	214
N-012	254x254x107 kg/m	2500	275
N-010	254x254x107 kg/m	3030	365



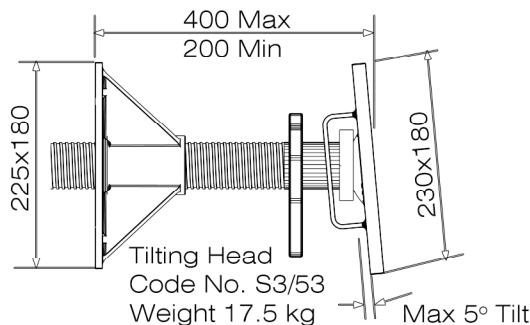
Clamp Plate  
Code No. N-003  
Weight 1.4 kg



Connector Plate  
Code No. N-001  
Weight 3.1 kg



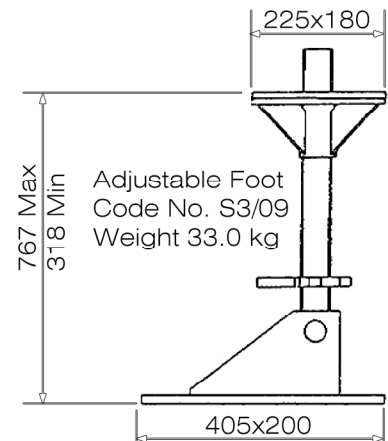
Washer  
Code No. N-002  
Weight 0.25 kg



Tilting Head  
Code No. S3/53  
Weight 17.5 kg



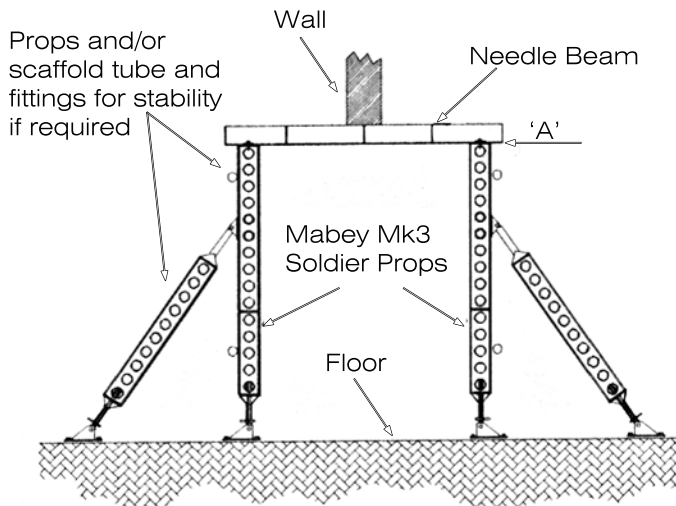
Mk3 Soldier		
Code No.	Length (mm)	Weight (kg)
S3/1-4500	4500	101
S3/1-3600	3600	82
S3/1-2700	2700	62.5
S3/1-1800	1800	40
S3/1-900	900	25
S3/1-540	540	15.7
S3/1-360	360	11.8
S3/24	360	18.5



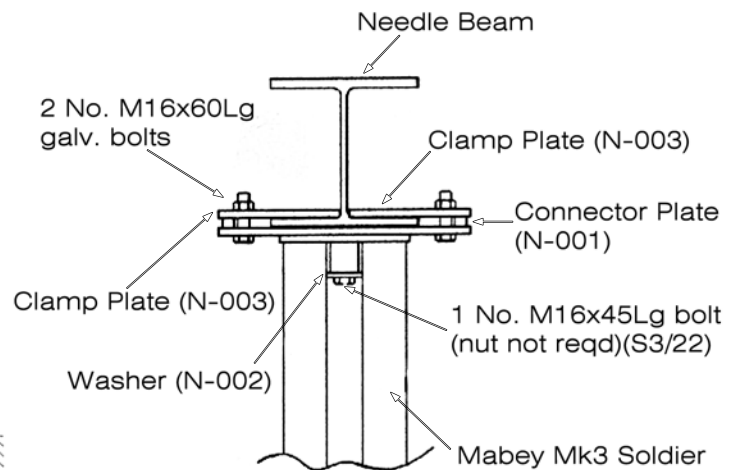
Adjustable Foot  
Code No. S3/09  
Weight 33.0 kg

## 3. Uses

- 3.1 The connector plate is intended to fit on top of a vertical Mabey Mk3 soldier and provide a connection onto the horizontal needle beam, typically as shown below. The connector plate is free to rotate through 360° allowing the needle to be located at any position on top of the soldier.
- The washer (N-002) does not clamp tight, but holds the connector plate captive to the soldier end plate.

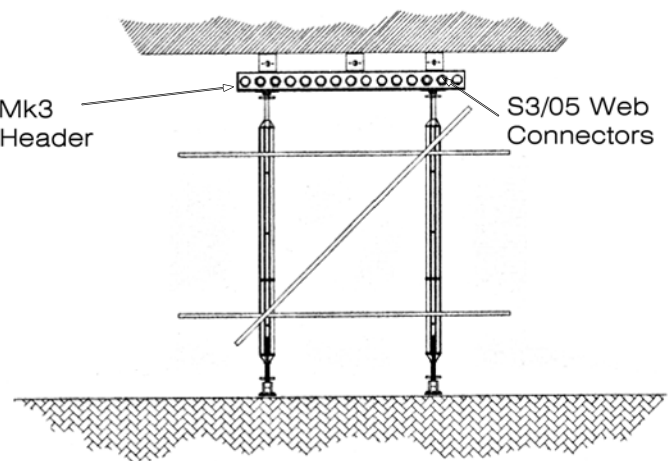
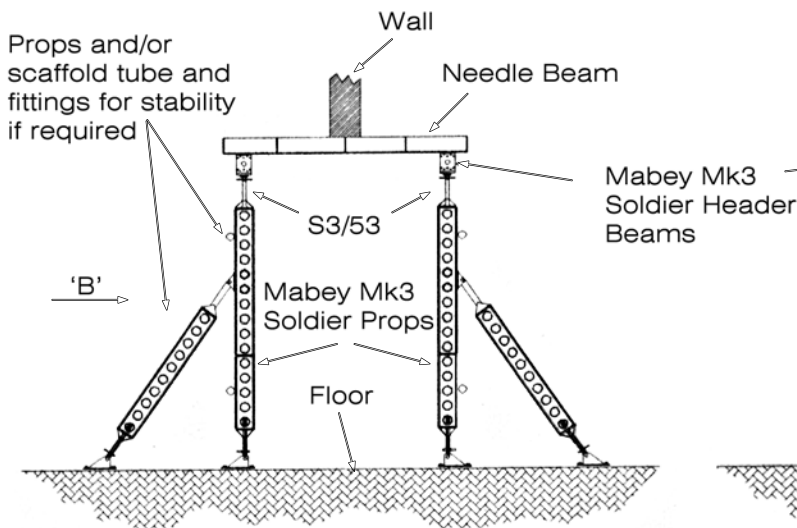


Typical Needle Beam/Prop Arrangement



Enlarged View on 'A'

- 3.2 The tilting head (which provides 5° max. tilt) is intended to fit on top of a vertical Mabey Mk3 soldier and connect onto a horizontal Mk3 soldier header beam. The needle beam is then positioned on top of the header beam at 90° to it. The tilting head provides fine vertical adjustment and the use of this arrangement allows the vertical props to be spaced at greater centres than the needle beams.



View on 'B'

Typical Needle Beam/Prop Arrangement using S3/53 Tilting Head

## 4. General

Since our policy is one of continual improvement, components may vary in detail from the descriptions given in this publication.